

**What is claimed is:**

SUB B17

1. An internet address system structure for introducing a telephone network number system, comprising:

5 a top level aggregation identifier field; and  
a telephone number code field classified based on a telephone number system.

2. The structure according to claim 1, wherein the  
10 telephone number code field comprises:

a country code field for distinguishing the respective countries;

an area code field for distinguishing domestic areas;

15 a central office code field for identifying the central office serving the subscriber; and

a station number field for identifying a particular station in the central office code.

3. The system according to claim 1, wherein IPv6  
20 address system is used as the internet address system, and E.164 number system is used as the telephone network number system.

4. A hierarchical routing method using an internet  
25 address system introducing a telephone network number system,

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wherein a routing process is performed in the internet address system, by using the telephone number system consisting of hierarchical administrative district codes, the hierarchical routing process being integrated or segmented according to the respective steps of the telephone number system in countries worldwide.

5        5.        The method according to claim 4, wherein the hierarchical routing process comprises:

10        a first step wherein a router of a country code hierarchy identifies a country code, and forwards to a corresponding country;

15        a second step wherein a router of a domestic area code hierarchy identifies a domestic area code, and forwards to a corresponding area; and

      a third step wherein a router of a central office code hierarchy identifies and routes a destination the same with a corresponding subscriber number.

20        6.        The method according to claim 4, wherein IPv6 address system is used as the internet address system, and E.164 number system is used as the telephone network number system.

25        7.        An internet address system introducing a zip code

system, comprising:

a top level aggregation identifier field;

a zip code field classified by the zip code system;

and

5 a subscriber identification number field which is a final identifier field.

8. The system according to claim 7, wherein the zip code field comprises:

10 a high level area code field for distinguishing high level areas;

a middle level area code field for distinguishing middle level areas; and

15 a low level area code field for distinguishing low level areas.

9. The system according to claim 7, further comprising a country number field for distinguishing the respective countries.

20 10. The system according to claim 7, wherein IPv6 address system is used as the internet address system, and the zip code systems of the respective countries are used as the zip code system.

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11. A hierarchical routing method using an internet address system introducing a zip code system, wherein a routing process is performed in the internet address system, by using the zip code system consisting of hierarchical administrative district codes, the hierarchical routing process being integrated or segmented according to the respective steps of the zip code system in countries worldwide.

12. The method according to claim 11, wherein the hierarchical routing process comprises:

a first step wherein a router of a high level area code hierarchy identifies a high level area code in the zip code system, and forwards to a corresponding high level area;

a second step wherein a router of a middle level area code hierarchy identifies a middle level area code in the zip code system, and forwards to a corresponding middle level area;

a third step wherein a router of a low level area code hierarchy identifies a low level area code in the zip code system, and forwards to a corresponding low level area; and

a fourth step wherein a router of a subscriber ID number hierarchy identifies a subscriber ID number, and routes to a destination identical to the subscriber ID

number.

13. The method according to claim 12, wherein the hierarchical routing process further comprises a step  
5 wherein a router of a country code hierarchy identifies a country code, and forwards to a corresponding country, prior to the first step.

14. The system according to claim 11, wherein IPv6  
10 address system is used as the internet address system, and the zip code systems of the respective countries are used as the zip code system.